

Table 1 - Reference Table of RbR Changes and RbR to L4 Linkages and changes based on 073196 RTM BASELINE

RBR_id	req_key	req_category	segment	req_type	s_verification_method	a_verification_method	text	interpretation text	L4 id	req_key	rel	req_type	verification_method	text
DADS2410 #A	6432	mission essential	SDPS	functional	demo	test	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.		S-DSS-20980	3742	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to open files on archive storage media in the DRPHW CI
									S-DSS-20985	3743	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to open files on archive storage media in the WKSHW CI
									S-DSS-20990	3744	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to close files on archive storage media in the DRPHW CI
									S-DSS-20995	3745	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to close files on archive storage media in the WKSHW CI
									S-DSS-21000	3746	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to read information from files on archive storage media in the DRPHW CI.
									S-DSS-21005	3747	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to read information from files on archive storage media in

														the WKSHW CI.
									S-DSS-21010	3748	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to write information into files on archive storage media in the DRPHW CI.
									S-DSS-21015	3749	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to write information into files on archive storage media in the WKSHW CI.
									S-DSS-21020	3750	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to allocate archive storage devices for Service Request processing in the DRPHV CI.
									S-DSS-21025	3751	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to allocate archive storage devices for Service Request processing in the WKSHW CI.
									S-DSS-21030	3752	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to deallocate archive storage devices in the DRPHW CI.
									S-DSS-21035	3753	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to deallocate archive storage devices in the DRPHW CI.
									S-DSS-21040	3754	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to open files on staging devices in

														the WKSHW CI.
									S-DSS-21050	3755	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to close files on staging devices in the WKSHW CI.
									S-DSS-21060	3756	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to write information into files on staging devices in the WKSHW CI.
									S-DSS-21070	3757	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to read information from files on staging devices in the WKSHW CI.
									S-DSS-21080	3758	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to delete files on staging devices in the WKSHW CI.
									S-DSS-21090	3759	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to rename files on staging devices in the WKSHW CI.
									S-DSS-21100	3760	A	functional	demo	The STMGT CI shall provide the SDSRV CI the capability to obtain information concerning files on staging devices in the WKSHW CI. Note: File info. includes file name, size, type, organization, creation date, protections, owner, last access time and id of last entity to access file.
									S-DSS-30010	3807	A	functional	demo	The DDIST CI shall accept Electronic Distribution Requests or

														Media Distribution Requests.
									S-DSS-30040	3810	A	functional	demo	The DDIST CI shall log the following on the Distribution Activity Log whenever an Electronic Distribution Request fails validation: User Identifier, Request Identifier, Date and Time and an explanation of the failure.
									S-DSS-30045	3811	A	functional	demo	The DDIST CI shall send Notifications to users via email in the event that the request is canceled by operations staff and the user has an active session.
									S-DSS-30046	3812	A	functional	demo	The DDIST CI shall send Notifications to the user's desktop application in the event that the request is canceled by operations staff and the user has an active session.
									S-DSS-30050	3813	A	functional	demo	The DDIST CI shall send a Notification to the source of the request if an Electronic Distribution Request fails validation.
									S-DSS-30070	3815	A	functional	demo	The DDIST CI shall log a Distribution Failure Message whenever a Media Distribution Request fails validation.
									S-DSS-30080	3816	A	functional	demo	The DDIST CI shall send a Notification to the source of the request if a Media Distribution Request fails validation.
									S-DSS-30020	9143	A	functional	demo	Distribution Requests shall have the format described in Appendix A

														of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
									S-DSS-30030	9144	A	functional	demo	The DDIST CI shall validate each Electronic Distribution Request and verify that the format conforms to that specified in Appendix A of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
									S-DSS-30060	9145	A	functional	demo	The DDIST CI shall validate each Media Distribution Request and verify that it conforms to the format specified in Appendix A of the current version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
									<u>S-DSS-30710</u>	3885	A	functional	demo	The DDIST CI shall provide the capability to distribute any Data , or appropriate subset, listed in the Inventory. Note: The appropriate subset of a data item is determined by and depends on the subject data type.
DADS2510 #A	4510	mission essential	SDPS	functional	demo	demo	Each DADS shall copy data to the		S-DSS-30070	3815	A	functional	demo	The DDIST CI shall log a Distribution Failure Message whenever a Media Distribution

							class of physical media specified in the product order from the IMS.							Request fails validation.
									<u>S-DSS-30010</u>	3807	A	functional	demo	The DDIST CI shall accept Electronic Distribution Requests or Media Distribution Requests.
									S-DSS-30080	3816	A	functional	demo	The DDIST CI shall send a Notification to the source of the request if a Media Distribution Request fails validation.
									<u>S-DSS-30710</u>	3885	A	functional	demo	The DDIST CI shall provide the capability to distribute any Data , or appropriate subset, listed in the Inventory. Note: The appropriate subset of a data item is determined by and depends on the subject data type.
									S-DSS-30730	3886	A	functional	demo	The DDIST CI shall provide the capability for operations staff to manually load media into the peripheral devices.
									S-DSS-30740	3887	A	functional	demo	The DDIST CI shall provide the capability for operations staff to manually unload media from the peripheral devices.
									S-DSS-30060	9145	A	functional	demo	The DDIST CI shall validate each Media Distribution Request and verify that it conforms to the format specified in Appendix A of the current

														version of 304-CD-002 for Release A and as specified in Appendix K of the current version of 304-CD-005 for Release B.
DADS2778 #A	6436	mission essential	SDPS	performance	demo	test	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.	A: TRMM rates only	S-DSS-60940	9151	A	performance	demo	The ACMHW CI at the GSFC DAAC shall be capable of ingesting data at a maximum rate that is: three times the nominal rate specified in Sections E.2 & E.3 of Appendix E of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B.
									S-DSS-21710	9169	A	performance	demo	The WKSHW CI shall be sized to support a sustained I/O rate derived from Section E.1 of Appendix E of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B in bytes/second of data.
									S-DSS-21720	9170	A	performance	demo	The DRPHW CI shall be sized to support a sustained I/O rate of 1x the production volume from electronic distribution, where 1x production volume is derived from Section E.1 of, Appendix E of the current version of 304-CD 002 for Release A and the current version of 304-CD 005 for Release B.
									S-DSS-01930	9189	A	performance	demo	The Science Data Server and Science Management

														within the Data Server shall be capable of accepting and storing Data Products derived from Section E.1 of Appendix E of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B from the PRONG CI while supporting standard product retrieval and browse data access loads
									S-DSS-01940	9190	A	performance	demo	The Science Data Server and Science Management within the Data Server shall be capable of ingesting product data at a maximum rate (three times the nominal rate derived from the number of bytes per day specified in Section E.1 of Appendix E of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B from the PRONG CI until the backlog is processed, while standard product retrieval and browse data access loads are suspended.
									S-DSS-10360	9197	A	performance	demo	The Document Data Server shall be capable of accepting and storing documents and related data at a nominal rate derived from Section E.1 of Appendix E of the current version of 304-CD

														002 for Release A and the current version of 304-CD 005 for Release B from external clients while supporting standard data retrieval and access loads.
									S-INS-01000	9462	A	performance	demo	The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the SDPF at a maximum daily rate that is three times the nominal rate specified in Table E-3 of Appendix E of the current version of 304-CD 002 for Release A.
									S-INS-01060	9467	A	performance	demo	The ICLHW CI at the MSFC DAAC shall be capable of ingesting data from the SDPF at a maximum daily rate that is three times the nominal rate specified in Table E-3 of Appendix E of the current version of 304-CD 002 for Release A.
									S-INS-60750	9479	A	performance	demo	The ICLHW CI at the GSFC DAAC shall be sized to temporarily store ingest data to support early testing of the EDOS interface.
									S-INS-60755	9481	A	performance	demo	The ICLHW CI at the LaRC DAAC shall be sized to temporarily store two times the daily volume of SDPF data as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
									S-INS-60760	9483	A	performance	demo	The ICLHW CI at the MSFC DAAC shall be

														sized to temporarily store two times the daily volume of SDPF data as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
DADS3055 #A	6439	mission essential	SDPS	performance	demo	test	At each DADS all backup media shall be capable of being mounted automatically where appropriate, with the provision for manual failover.	<u>“Mounted automatically” will be operator initiated.</u>	S-DSS-20150	3651	A	functional	demo	The STMGT CI shall provide operations staff the capability to manually dismount backup archive media.
									S-DSS-20160	3653	A	functional	demo	The STMGT CI shall provide operations staff the capability to manually mount backup archive media.
									<u>NEW L4</u>					<u>Stacker capability</u>
									<u>New L4</u>					<u>Robot capability</u>
DADS3125 #A	6442	mission fulfillment	SDPS	performance	demo	test	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery,		S-DSS-30950	9173	A	performance	demo	The DIPHW CI shall be sized to temporarily store the total number of bytes of distribution data derived from Section E.1 of Appendix E of the current version of 304-CD 002 for Release A and the current version of 304-CD 005 for Release B.

							available to the network in that ECS standard format within an average of 2 minutes after the receipt of a request for that data.							
									<u>S-DSS-01880</u>	3989	A	performance	demo	The Science Data Server support making archive data associated with a predefined ECS standard format available to the network in that format within an average of 2 minutes.
									<u>S-DSS-21640</u>	4015	A	performance	demo	The Science Manager within the Data Server shall support making archive data associated with a pre-defined ECS standard format available to the network in that format within an average of 2 minutes.
									<u>S-DSS-30850</u>	4021	A	performance	demo	The Data Distribution within the Data Server shall support making archive data associated with a predefined ECS standard format available to the network in that format within an avg. of 2 minutes.
DADS3126 #A	6443	mission fulfillment	SDPS	performance	demo	test	Each DADS shall make archive data, associated with a pre-defined ECS		<u>S-DSS-01880</u>	3989	A	performance	demo	The Science Data Server shall support making archive data associated with a predefined ECS standard format available to the network in that format within an average

							standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.							of 2 minutes.
									S-DSS-01890	3990	A	performance	demo	The Science Data Server shall support making archive data associated with a predefined ECS standard format available to the network in a different format within an avg. of 5 minutes.
									S-DSS-21640	4015	A	performance	demo	The Science Manager within the Data Server shall support making archive data associated with a pre-defined ECS standard format available to the network in that format within an average of 2 minutes.
									S-DSS-21650	4016	A	performance	demo	The Science Manager within the Data Server shall support making archive data associated with a pre-defined ECS standard format available to the network in a different format within an average of 5 minutes.
									S-DSS-	4021	A	perform	demo	The Data Distribution

									30850			mance		within the Data Server shall support making archive data associated with a predefined ECS standard format available to the network in that format within an avg. of 2 minutes.
									S-DSS-30860	4022	A	performance	demo	The Data Distribution within the Data Server shall support making archive data associated with a predefined ECS format available to the network in a different format within an average of 5 minutes.
									S-DSS-30950	9173	A	performance	demo	The DIPHW CI shall be sized to temporarily store the total number of bytes of distribution data derived from Section E.1 of Appendix E of the current version of 304-CD 002 for Release A and the current version of 304-CD 005 for Release B.
DADS3135 #A	6444	mission essential	SDPS	performance	demo	test	The DADS shall have the capability to support the transaction rate as specified in Table 7-4.		S-DSS-01910	9185	A	performance	demo	The Science Data Server shall be capable of receiving a combined maximum number of Browse Requests per hour (across ECS) from the Data Management Subsystem and/or the Client Subsystem as derived from Section E.6 of Appendix E of the current version of 304-CD 002 for Release A and the current version of 304-CD 005 for Release B.
									S-DSS-	9187	A	perform	demo	The Science Data Server

									01900			mance		shall be capable of receiving a combined maximum number of Data Requests per hour (across ECS) from the Data Management Subsystem and/or the client Subsystem as derived from Section E.6 of Appendix E of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B.
									S-DSS-01920	9188	A	performance	demo	The Science Data Server shall support making pre-computed Browse Data available to a requester in 58 seconds after accepting and validating the request in the number of seconds specified in Appendix E of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B.
									S-DSS-10350	9196	A	performance	demo	The Document Data Server shall be capable of receiving a combined maximum of product orders per hour as derived from Section E.6 of Appendix E (across ECS) of the current version of 304-CD-002 for Release A and the current version of 304-CD-005 for Release B from the Data Management Subsystem and/or the Client subsystem.
									<u>NEW</u>					<u>Reference to Table 7-4</u>

									<u>L4</u>					<u>reqs</u>
DADS3140 #A	4543	mission essenti al	SDPS	functi onal	demo	demo	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data ingest services operated independently of the delivered ECS DADS services.		S-INS-00316	4072	A	functi onal	demo	The INGST CI shall accept an Ingest Request from authorized applications.
									S-INS-00317	4073	A	functi onal	demo	The INGST CI shall authenticate the User Identifier of an application submitting an Ingest Request.
									S-INS-00364	4085	A	functi onal	demo	The INGST CI shall accept an ingest Cancellation Request from authorized applications to cancel an ongoing Ingest Request, specifying the Request Identifier.
									S-INS-00369	4088	A	functi onal	demo	The INGST CI shall authenticate the User Identifier of an application submitting an

														ingest Cancellation Request.
									S-INS-00396	4096	A	functional	demo	The INGST CI shall report status on ingest Cancellation Requests to the requesting application and to the Error Log for the following: a. Unauthorized requester b. Invalid ingest Request Identifier c. Unable to suspend specified Ingest Request(s)
									<u>S-DSS-21312</u>	4942	A	functional	demo	The STMGT CI shall be developed using file storage management systems that have configuration-controlled application programming interfaces (APIs).
									<u>NEW L4</u>					<u>API capability</u>
DADS3150 #A	6445	mission fulfillment	SDPS	functional	demo	inspection	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of DAAC-unique data distribution		S-DSS-21312	4942	A	functional	demo	The STMGT CI shall be developed using file storage management systems that have configuration-controlled application programming interfaces (APIs).

							services operated independently of the delivered ECS DADS services.							
									<u>NEW</u> <u>L4</u>					<u>API capability</u>
DADS3160 #A	6446	mission fulfillment	SDPS	functional	demo	inspection	The DADS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of an operator interface that may bypass the delivered DADS operator interface.		S-DSS-21312	4942	A	functional	demo	The STMGT CI shall be developed using file storage management systems that have configuration-controlled application programming interfaces (APIs).
									<u>NEW</u> <u>L4</u>					<u>API capability</u>